

WHAT IS CLAIMED IS:

1. A mobile station device for controlling transmission in a mobile communication system, comprising:

5 a measurer for detecting a power control bit from a channel signal received on a forward link channel and measuring a reception strength of the received channel signal using the detected power control bit;

a controller for comparing the reception strength with a threshold and generating a signal for controlling transmission on a reverse link depending on the comparison; and

10 a reverse link transmitter for stopping channel transmission on the reverse link in response to the transmission control signal.

2. The mobile station device recited in Claim 1, wherein the forward link channel is transmitted in a discontinuous transmission mode.

3. The mobile station device recited in Claim 2, wherein the reception strength of the forward link channel output from the measurer is a signal-to-noise ratio (SNR) calculated using the power control bit.

4. The mobile station device recited in Claim 1, wherein the controller accumulates values representative of the reception strength for a predetermined period, averages the accumulated values, and generates the transmission control signal if the average value is smaller than the threshold.

5. A mobile station device for resuming communication in a reverse link transmission suspended state in a mobile communication system, comprising:

a measurer for detecting a power control bit from a channel signal received on a forward link channel and measuring a reception strength of the received channel signal using the detected power control bit;

a controller for comparing the reception strength with a threshold and generating a signal for resuming transmission on a reverse link depending on the comparison; and

a reverse link transmitter for resuming channel transmission on the reverse link in response to the transmission resuming signal.

6. The mobile station device recited in Claim 5, wherein the forward link channel is transmitted in a discontinuous transmission mode.

7. The mobile station device recited in Claim 5, wherein the reception strength of the forward link channel output from the measurer is an SNR calculated using the power control bit.

8. The mobile station device recited in Claim 5, wherein the controller accumulates values representative of the reception strength for a predetermined frame period, averages the accumulated values, and generates the transmission resuming signal if the average value is greater than the threshold.

9. A method of controlling communication on a reverse link for a mobile communication system, comprising the steps of:

detecting a power control bit from a channel signal received on a forward link channel and measuring a reception strength of the received channel signal using the detected power control bit;

comparing the reception strength with a threshold; and

stopping transmission on a reverse link by controlling a reverse link

channel if the reception strength is determined unacceptable as a result of the comparison.

10. The method recited in Claim 9, wherein the forward link channel
5 is transmitted in a discontinuous transmission mode.

11. The method recited in Claim 10, wherein the reception strength
of the forward link channel output from the measurer is an SNR calculated using
the power control bit.

12. The method recited in Claim 9, wherein values representative of
the reception strength are accumulated for a predetermined period and the
accumulated values are averaged, and a transmission control signal is generated if
the average value is smaller than the threshold in the transmission stopping step.

13. A method of resuming communication in a reverse link
transmission suspended state in a mobile communication system, comprising the
steps of:

detecting a power control bit from a channel signal received on a forward
link channel and measuring a reception strength of the channel signal using the
detected power control bit;

comparing the reception strength with a threshold and resuming
transmission on a reverse link by controlling a reverse link channel depending on
the comparison.

14. The method recited in Claim 13, wherein the forward link channel is transmitted in a discontinuous transmission mode.

5 15. The method recited in Claim 14, wherein the reception strength of the forward link channel output from the measurer is an SNR calculated using the power control bit.

10 16. The method recited in Claim 13, wherein values representative of the reception strength accumulated for a predetermined frame period and the accumulated values are averaged, and a transmission resuming signal is generated if the average value is greater than the threshold in the transmission resuming step.

15 17. A method of controlling communication on a reverse link in a mobile communication system, comprising the steps of:

detecting a power control bit from a first channel signal received on a forward link channel and measuring a reception strength of the first channel signal using the detected power control bit;

20 comparing the reception strength of the first channel signal with a first threshold and stopping transmission on a reverse link by controlling a reverse link channel depending on the comparison;

detecting a power control bit from a subsequent channel signal received on the forward link channel and measuring a reception strength of the subsequent channel signal using the detected power control bit;

25 comparing the reception strength of the subsequent channel signal with a second threshold and resuming transmission on the reverse link by controlling the reverse link channel depending on the comparison.

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